

# Comparisons of Job Characteristics

**Focus Occupation: Database Administrators (15-1061)**

**Associated Occupation: Computer Software Engineers, Systems Software (15-1032)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 91

**Focus Occupation: Database Administrators (15-1061)**

**Associated Occupation: Computer Software Engineers, Systems Software (15-1032)**

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	23.1	19.9	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	14.6	8.5	<<	Extensive education and/or training may be required
Customer and Personal Service	11.3	11.8	14.2	>	Current knowledge level is likely sufficient
Design	5.2	10.9	6.4	<<	Extensive education and/or training may be required
Telecommunications	3.9	8.3	7.3	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 85

**Focus Occupation: Database Administrators (15-1061)**

**Associated Occupation: Computer Software Engineers, Systems Software (15-1032)**

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Programming	2.2	12.6	9.9	<	A higher skill level may be required
Operations Analysis	5.0	12.0	9.6	<	A higher skill level may be required
Systems Evaluation	6.4	10.7	10.4	0	Current skill level may be sufficient
Systems Analysis	6.5	10.2	10.6	0	Current skill level may be sufficient
Technology Design	2.6	8.1	6.1	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 95			
Focus Occupation: Database Administrators (15-1061) Associated Occupation: Computer Software Engineers, Systems Software (15-1032)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	14.5	12.2	<	Some improvement in abilities may be required
Written Comprehension	11.0	13.8	11.7	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	12.6	11.6	0	Current ability level may be sufficient
Written Expression	9.8	12.3	10.1	<	Some improvement in abilities may be required
Inductive Reasoning	10.2	11.8	11.1	0	Current ability level may be sufficient
Information Ordering	9.9	11.4	12.3	0	Current ability level may be sufficient
Mathematical Reasoning	6.3	9.8	9.7	0	Current ability level may be sufficient
Originality	7.6	9.3	9.8	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 90
Focus Occupation: Database Administrators (15-1061) Associated Occupation: Computer Software Engineers, Systems Software (15-1032)		
Work Activities	Exclusivity of Activity	
Adjust computer operation system	84	
Communicate technical information	4	
Design data security systems	89	
Develop computer performance standards	87	
Develop or maintain databases	30	
Develop tables depicting data	33	
Evaluate computer system user requests or requirements	81	
Follow data security procedures	77	
Follow data storage procedures	75	
Program mainframe computer	84	
Provide technical computer training	82	
Revise or correct errors in computer programs, software, or systems	85	
Test computer programs or systems	78	
Use computer networking technology	81	
Use computer programming language	82	

Use computers to enter, access or retrieve data	3
Use knowledge of mainframe computers	78
Use project management techniques	47
Use spreadsheet software	18
Write computer software, programs, or code	84
Write documentation for computer programming	87

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 87

**Focus Occupation: Database Administrators (15-1061)**

**Associated Occupation: Computer Software Engineers, Systems Software (15-1032)**

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Data management and query software	1
Development software	4
Industry specific software	1
Network applications software	1
Networking software	21
Operating environment software	12
Security and protection software	30
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.